Air Conditioning

Technical Data

4-way blow ceiling mounted cassette



EEDEN12-204

FXZQ-M9

TABLE OF CONTENTS
FXZQ-M9

1 Features

- Modern style decoration panel in white (RAL9010)
- Comfortable horizontal air discharge ensures draughtfree operation and prevents ceiling soiling
- Compact casing (575mm in width and depth) enables unit to fit flush into ceilings and match standard architectural modules, without cutting ceiling tiles
- 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- Whisper quiet operation: down to 25dBA sound pressure level
- Fresh air intake for healthy living
- Since the flaps can move to a 0degree position, virtually no draught can be experienced
- Possibility to shut 1 or 2 flaps for easy installation in corners
- Easy maintenance: switch box can be reached by simply removing the suction grille
- Standard drain pump with 750mm lift
- Allows multi tenant applications (option PCB required)





2 steps



optional

standard

2 Specifications

2-1 Technical Specifications					FXZQ15M9	FXZQ20M9	FXZQ25M9	FXZQ32M9	FXZQ40M9	FXZQ50M9
Cooling capacity	Nom.			kW	1.7 (1)	2.2 (1)	2.8 (1)	3.6 (1)	4.5 (1)	5.6 (1)
Heating capacity	Nom.			kW	1.9 (2)	2.5 (2)	3.2 (2)	4.0 (2)	5.0 (2)	6.3 (2)
Power input - 50Hz	Cooling	Nom.		kW	0.073			0.076	0.089	0.115
	Heating	Nom.		kW	0.064			0.068	0.080	0.107
Casing	Colour				Unpainted					
	Material				Galvanised steel					
Dimensions	Unit	Height		mm	286					
		Width		mm	575					
		Depth		mm	575					
	Packed unit	Height		mm	371					
		Width		mm	675					
		Depth		mm	681					
Weight	Unit			kg	18					
	Packed unit			kg	22					
Decoration panel	Model				BYFQ60BW1					
	Colour				Pure White (RAL 9010)					
	Dimensions	Height		mm	55					
		Width		mm	700					
		Depth		mm	700					
	Weight			kg	2.7					
Heat exchanger	Rows	Quantity			2					
	Fin pitch			mm	1.5					
	Face area			m²	0.269					
	Stages	Quantity			10					
	Tube type				ø7 Hi-XSS					
Fan	Type				Turbo fan					
	Quantity				1					
	Air flow rate - 50Hz	Cooling	High	m³/min	8.1	9		9.5	11	14
			Low	m³/min	7			7.5	8	10
Fan motor	Quantity				1					
	Output	High		W	55					
	Drive				Direct drive					
Sound power level	Cooling	High		dBA	46	47		49	53	58
Sound pressure level	Cooling	High		dBA	29	30		32	36	41
		Low		dBA	25			26	28	33
Refrigerant	Type				R-410A					
	Control				Electronic expansion valve					
Piping connections	Liquid	Type			Flare connection					
		OD		mm	6.35					
	Gas	Type			Flare connection					
		OD		mm	12.7					
	Drain				VP20 (I.D. 20/O.D. 26)					
Temperature control					Microprocessor thermostat for cooling and heating					
Safety devices	Item	01			Fuse					

Standard Accessories : Insulation for fitting;
Standard Accessories : Washer for hanger bracket;
Standard Accessories : Screws;
Standard Accessories : Clamps;
Standard Accessories : Sealing pads;
Standard Accessories : Washer fixing plate;
Standard Accessories : Clamp metal;
Standard Accessories : Drain hose;
Standard Accessories : Paper pattern for installation;
Standard Accessories : Installation manual;
Standard Accessories : Operation manual;

2 Specifications

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2-2 Electrical Specifications				FXZQ15M9	FXZQ20M9	FXZQ25M9	FXZQ32M9	FXZQ40M9	FXZQ50M9
Power supply	Name			V1					
	Phase			1~					
	Frequency		Hz	50					
	Voltage		V	220-240					
Voltage range	Min.		%	-10					
	Max.		%	10					
Current - 50Hz	Minimum circuit amps (MCA)		A	0.8					0.9
	Maximum fuse amps (MFA)		A	15					
	Full load amps (FLA)	Total	A	0.6					0.7

Notes

(1) Cooling: indoor temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m

(2) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m

(3) Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

(4) PED unit category: Art3§3: excluded from scope of PED due to article 1, item 3.6 of 97/23/EC

(5) Dimensions do not include control box

(6) Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

(7) Maximum allowable voltage range variation between phases is 2%.

(8) MCA/MFA: MCA = 1.25 x FLA

(9) MFA ≤ 4 x FLA

(10) Next lower standard fuse rating minimum 15A

(11) Select wire size based on the value of MCA

(12) Instead of a fuse, use a circuit breaker

3 Safety device settings

3 - 1 Safety Device Settings

FXZQ-M9

Safety devices		FXZQ-M9					
		15	20	25	32	40	50
PC board fuse		250V 10A					
Fan motor thermal fuse	°C	-					
Fan motor thermal protector	°C	OFF: 130±5 ON: 83±20					

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4 Options

4 - 1 Options

4

FXZQ-M9

OPTIONS

	Item	Model		FXZQ15	FXZQ20	FXZQ25	FXZQ32	FXZQ40	FXZQ50
1	Decoration panel			BYFQ60B					
2	Sealing member of air discharge outlet			KDBH44BA60					
3	Panel spacer			KDBQ44B60					
4	Long-life filter			KAFQ441 BA60					
5	Fresh air intake kit		Direct installation type	KDDQ44XA60					

CONTROL SYSTEM

	Item	Model		FXZQ15	FXZQ20	FXZQ25	FXZQ32	FXZQ40	FXZQ50
1	Remote control	Infrared	HIP	BRC7E530					
			C/O	BRC7E531					
		Wired	For Europe	BRC1D52					
				BRC1E51A7 BRC1D52 *4 / BRC1 E52A7 *5 / BRC1 E52B7 *6					
2	Central remote control			DCS302C51					
2.1	Electrical box with earth terminal (3 blocks)			KJB311A					
3	Unified onloff controller		For Europe	DCS301B51					
3.1	Electrical box with earth terminal (2 blocks)			KJB212A					
3.2	Noise filter (for electromagnetic interface use only)			KEK26-1A					
4	Schedule timer			DST301B51					
5	Adapter for wiring			KRP1B57 (* See Note 2)					
6.1	Wiring adapter for electrical appendices *1		For Europe	KRP2A52 (* See Note 2)					
6.2	Wiring adapter for electrical appendices *2			KRP4A53 (* See Note 2)					
7	Installation box for adapter PCB			KRP1BA101					
8	Remote sensor			KRCS01-1					
9	External control adapter		For Europe	DTA104A52					
10	Multi tenant *3			EKMTAC					

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NOTES

*1. All options are supplied as kit.
*2. The 'installation box for adapter PCB' is required.
*3. This kit contains parts to connect with 10 multi tenant indoor units.
*4. Included languages are: English, German, French, Dutch, Spanish, Italian, Greek, Portuguese, Russian and Turkish.
*5. Included languages are: English, German, French, Dutch, Spanish, Italian, Greek, Portuguese, Russian, Turkish and Polish.
*6. Included languages are: English, German, Albanian, Bulgarian, Croatian, Czech, Hungarian, Romanian, Serbian, Slovak and Slovenian.

5 Capacity tables

5 - 1 Cooling Capacity Tables

FXZQ-M9 - Cooling

			Indoor air temp.													
Unit Size	Nominal Capacity	Outdoor °CDB	14.0 WB		16.0 WB		18.0 WB		19.0 WB		20.0 WB		22.0 WB		24.0 WB	
			20.0 DB		23.0 DB		26.0 DB		27.0 DB		28.0 DB		30.0 DB		32.0 DB	
			TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
15	1.7	10.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.4	1.8	1.5	2.0	1.5	2.2	1.4
		12.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.4	1.8	1.5	2.0	1.5	2.2	1.4
		14.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.4	1.8	1.5	2.0	1.5	2.2	1.4
		16.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.4	1.8	1.5	2.0	1.5	2.1	1.4
		18.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.4	1.8	1.5	2.0	1.5	2.1	1.4
		20.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.4	1.8	1.5	2.0	1.5	2.1	1.4
		21.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.4	1.8	1.5	2.0	1.5	2.1	1.4
		23.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.4	1.8	1.5	2.0	1.4	2.0	1.3
		25.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.4	1.8	1.5	2.0	1.4	2.0	1.3
		27.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.4	1.8	1.5	1.9	1.4	2.0	1.3
		29.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.4	1.8	1.5	1.9	1.4	2.0	1.3
		31.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.4	1.8	1.5	1.9	1.4	1.9	1.3
		33.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.4	1.8	1.5	1.9	1.4	1.9	1.3
		35.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.4	1.8	1.4	1.8	1.3	1.9	1.2
		37.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.4	1.8	1.4	1.8	1.3	1.8	1.2
		39.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.4	1.7	1.4	1.8	1.3	1.8	1.2
20	2.2	10.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.6	1.6	2.9	1.7
		12.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.6	1.6	2.9	1.6
		14.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.6	1.6	2.8	1.6
		16.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.6	1.8	2.8	1.7
		18.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.6	1.8	2.7	1.7
		20.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.6	1.8	2.7	1.7
		21.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.6	1.8	2.7	1.6
		23.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.6	1.7	2.6	1.6
		25.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.6	1.7	2.6	1.6
		27.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.5	1.7	2.6	1.6
		29.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.5	1.7	2.5	1.6
		31.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.4	1.7	2.5	1.6
		33.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.4	1.6	2.5	1.5
		35.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.4	1.6	2.4	1.5
		37.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.3	1.6	2.4	1.5
		39.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.2	1.6	2.3	1.6	2.3	1.5
25	2.8	10.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.7	2.1
		12.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.6	2.1
		14.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.6	2.1
		16.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.5	2.0
		18.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.5	2.0
		20.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.4	2.0
		21.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.4	2.0
		23.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.3	2.1	3.4	1.9
		25.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.3	2.0	3.3	1.9
		27.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.2	2.0	3.3	1.9
		29.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.2	2.0	3.2	1.9
		31.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.1	2.0	3.2	1.9
		33.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.1	2.0	3.1	1.8
		35.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.0	1.9	3.1	1.8
		37.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	2.9	2.0	3.0	1.9	3.0	1.8
		39.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	2.9	2.0	2.9	1.9	3.0	1.8
32	3.6	10.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.3	2.5	4.7	2.6
		12.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.3	2.5	4.7	2.5
		14.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.3	2.5	4.6	2.5
		16.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.3	2.5	4.6	2.5
		18.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.3	2.5	4.5	2.5
		20.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.3	2.5	4.4	2.4
		21.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.3	2.5	4.4	2.4
		23.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.2	2.5	4.3	2.4
		25.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.2	2.5	4.3	2.4
		27.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.1	2.4	4.2	2.3
		29.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.1	2.4	4.2	2.3
		31.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.0	2.4	4.1	2.3
		33.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	3.9	2.4	4.0	2.3
		35.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	3.9	2.3	4.0	2.2
		37.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.7	2.4	3.8	2.3	3.9	2.2
		39.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.7	2.4	3.8	2.3	3.8	2.2

NOTES

TC: Total capacity: kW
SHC: Sensible heat capacity: kW

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5 Capacity tables

5 - 1 Cooling Capacity Tables

FXZQ-M9 - Cooling

			Indoor air temp.													
Unit Size	Nominal Capacity	Outdoor °CDB	14.0 WB		16.0 WB		18.0 WB		19.0 WB		20.0 WB		22.0 WB		24.0 WB	
			20.0 DB		23.0 DB		26.0 DB		27.0 DB		28.0 DB		30.0 DB		32.0 DB	
			TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
40	4.5	10.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.4	3.4	5.9	3.5
		12.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.4	3.4	5.8	3.4
		14.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.4	3.4	5.8	3.4
		16.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.4	3.4	5.7	3.4
		18.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.4	3.4	5.6	3.3
		20.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.4	3.4	5.5	3.3
		21.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.4	3.4	5.5	3.3
		23.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.3	3.3	5.4	3.2
		25.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.2	3.3	5.3	3.2
		27.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.2	3.3	5.3	3.2
		29.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.1	3.2	5.2	3.1
		31.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.0	3.2	.5.1	3.1
		33.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	4.9	3.2	5.0	3.1
		35.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.7	3.3	4.9	3.1	5.0	3.0
		37.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.2	4.7	3.2	4.8	3.1	4.9	3.0
		39.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.2	4.6	3.2	4.7	3.1	4.8	3.0
50	5.6	10.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.4	7.4	4.4
		12.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.4	7.3	4.4
		14.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.4	7.2	4.3
		16.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.4	7.1	4.3
		18.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.4	7.0	4.2
		20.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.4	6.9	4.2
		21.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.4	6.8	4.2
		23.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.6	4.3	6.7	4.1
		25.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.5	4.3	6.6	4.1
		27.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.4	4.2	6.6	4.0
		29.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.3	4.2	6.5	4.0
		31.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.2	4.1	6.4	4.0
		33.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.1	4.1	6.3	3.9
		35.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	5.9	4.2	6.0	4.0	6.2	3.9
		37.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	5.8	4.1	5.9	4.0	6.1	3.8
		39.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	5.7	4.1	5.8	3.9	6.0	3.8

3TW31612-1(2)

5 Capacity tables

5 - 2 Heating Capacity Tables

FXZQ-M9 - Heating

Unit Size	Nominal Capacity	Outdoor air temp.		Indoor air temp.: °CDB					
				16.0	18.0	20.0	21.0	22.0	24.0
		°CDB	°CWB	kW	kW	kW	kW	kW	kW
		-19.8	-20.0	1.1	1.1	1.1	1.1	1.1	1.1
		-18.8	-19.0	1.2	1.2	1.1	1.1	1.1	1.1
		-16.7	-17.0	1.2	1.2	1.2	1.2	1.2	1.2
		-14.7	-15.0	1.3	1.3	1.3	1.3	1.3	1.3
		-12.6	-13.0	1.4	1.4	1.4	1.3	1.3	1.3
		-10.5	-11.0	1.4	1.4	1.4	1.4	1.4	1.4
		-9.5	-10.0	1.5	1.5	1.5	1.4	1.4	1.4
		-8.5	-9.1	1.5	1.5	1.5	1.5	1.5	1.5
		-7.0	-7.6	1.5	1.5	1.5	1.5	1.5	1.5
15	1.9	-5.0	-5.6	1.6	1.6	1.6	1.6	1.6	1.6
		-3.0	-3.7	1.7	1.7	1.7	1.7	1.7	1.7
		0.0	-0.7	1.8	1.8	1.8	1.8	1.8	1.7
		3.0	2.2	1.9	1.9	1.9	1.8	1.8	1.7
		5.0	4.1	1.9	1.9	1.9	1.8	1.8	1.7
		7.0	6.0	2.0	2.0	1.9	1.8	1.8	1.7
		9.0	7.9	2.1	2.0	1.9	1.8	1.8	1.7
		11.0	9.8	2.1	2.0	1.9	1.8	1.8	1.7
		13.0	11.8	2.1	2.0	1.9	1.8	1.8	1.7
		15.0	13.7	2.1	2.0	1.9	1.8	1.8	1.7
		-19.8	-20.0	1.5	1.5	1.5	1.5	1.5	1.5
		-18.8	-19.0	1.5	1.5	1.5	1.5	1.5	1.5
		-16.7	-17.0	1.6	1.6	1.6	1.6	1.6	1.6
		-14.7	-15.0	1.7	1.7	1.7	1.7	1.7	1.7
		-12.6	-13.0	1.8	1.8	1.8	1.8	1.8	1.8
		-10.5	-11.0	1.9	1.9	1.9	1.9	1.9	1.9
		-9.5	-10.0	1.9	1.9	1.9	1.9	1.9	1.9
		-8.5	-9.1	2.0	2.0	1.9	1.9	1.9	1.9
		-7.0	-7.6	2.0	2.0	2.0	2.0	2.0	2.0
20	2.5	-5.0	-5.6	2.1	2.1	2.1	2.1	2.1	2.1
		-3.0	-3.7	2.2	2.2	2.2	2.2	2.2	2.2
		0.0	-0.7	2.3	2.3	2.3	2.3	2.3	2.2
		3.0	2.2	2.5	2.5	2.4	2.4	2.3	2.2
		5.0	4.1	2.5	2.5	2.5	2.4	2.3	2.2
		7.0	6.0	2.6	2.6	2.5	2.4	2.3	2.2
		9.0	7.9	2.7	2.7	2.5	2.4	2.3	2.2
		11.0	9.8	2.8	2.7	2.5	2.4	2.3	2.2
		13.0	11.8	2.8	2.7	2.5	2.4	2.3	2.2
		15.0	13.7	2.8	2.7	2.5	2.4	2.3	2.2
		-19.8	-20.0	1.9	1.9	1.9	1.9	1.9	1.9
		-18.8	-19.0	1.9	1.9	1.9	1.9	1.9	1.9
		-16.7	-17.0	2.1	2.1	2.0	2.0	2.0	2.0
		-14.7	-15.0	2.2	2.2	2.2	2.2	2.2	2.1
		-12.6	-13.0	2.3	2.3	2.3	2.3	2.3	2.3
		-10.5	-11.0	2.4	2.4	2.4	2.4	2.4	2.4
		-9.5	-10.0	2.5	2.4	2.4	2.4	2.4	2.4
		-8.5	-9.1	2.5	2.5	2.5	2.5	2.5	2.5
		-7.0	-7.6	2.6	2.6	2.6	2.6	2.6	2.6
25	3.2	-5.0	-5.6	2.7	2.7	2.7	2.7	2.7	2.7
		-3.0	-3.7	2.8	2.8	2.8	2.8	2.8	2.8
		0.0	-0.7	3.0	3.0	3.0	3.0	3.0	2.8
		3.0	2.2	3.1	3.1	3.1	3.1	3.0	2.8
		5.0	4.1	3.3	3.2	3.2	3.1	3.0	2.8
		7.0	6.0	3.4	3.4	3.2	3.1	3.0	2.8
		9.0	7.9	3.5	3.4	3.2	3.1	3.0	2.8
		11.0	9.8	3.6	3.4	3.2	3.1	3.0	2.8
		13.0	11.8	3.6	3.4	3.2	3.1	3.0	2.8
		15.0	13.7	3.6	3.4	3.2	3.1	3.0	2.8
		-19.8	-20.0	2.4	2.4	2.3	2.3	2.3	2.3
		-18.8	-19.0	2.4	2.4	2.4	2.4	2.4	2.4
		-16.7	-17.0	2.6	2.6	2.6	2.6	2.6	2.5
		-14.7	-15.0	2.7	2.7	2.7	2.7	2.7	2.7
		-12.6	-13.0	2.9	2.8	2.8	2.8	2.8	2.8
		-10.5	-11.0	3.0	3.0	3.0	3.0	3.0	3.0
		-9.5	-10.0	3.1	3.1	3.1	3.1	3.0	3.0
		-8.5	-9.1	3.1	3.1	3.1	3.1	3.1	3.1
		-7.0	-7.6	3.2	3.2	3.2	3.2	3.2	3.2
32	4.0	-5.0	-5.6	3.4	3.4	3.4	3.4	3.4	3.4
		-3.0	-3.7	3.5	3.5	3.5	3.5	3.5	3.5
		0.0	-0.7	3.7	3.7	3.7	3.7	3.7	3.5
		3.0	2.2	3.9	3.9	3.9	3.9	3.7	3.5
		5.0	4.1	4.1	4.1	4.0	3.9	3.7	3.5
		7.0	6.0	4.2	4.2	4.0	3.9	3.7	3.5
		9.0	7.9	4.3	4.3	4.0	3.9	3.7	3.5
		11.0	9.8	4.5	4.3	4.0	3.9	3.7	3.5
		13.0	11.8	4.5	4.3	4.0	3.9	3.7	3.5
		15.0	13.7	4.5	4.3	4.0	3.9	3.7	3.5

3TW31612-2(1)

5 Capacity tables

5 - 2 Heating Capacity Tables

5

FXZQ-M9 - Heating

Unit Size	Nominal Capacity	Outdoor air temp.		Indoor air temp.: °CDB					
				16.0	18.0	20.0	21.0	22.0	24.0
		°CDB	°CWB	kW	kW	kW	kW	kW	kW
40	5.0	-19.8	-20.0	3.0	2.9	2.9	2.9	2.9	2.9
		-18.8	-19.0	3.0	3.0	3.0	3.0	3.0	3.0
		-16.7	-17.0	3.2	3.2	3.2	3.2	3.2	3.2
		-14.7	-15.0	3.4	3.4	3.4	3.4	3.4	3.4
		-12.6	-13.0	3.6	3.6	3.6	3.5	3.5	3.5
		-10.5	-11.0	3.7	3.7	3.7	3.7	3.7	3.7
		-9.5	-10.0	3.8	3.8	3.8	3.8	3.8	3.8
		-8.5	-9.1	3.9	3.9	3.9	3.9	3.9	3.9
		-7.0	-7.6	4.0	4.0	4.0	4.0	4.0	4.0
		-5.0	-5.6	4.2	4.2	4.2	4.2	4.2	4.2
		-3.0	-3.7	4.4	4.4	4.4	4.4	4.4	4.4
		0.0	-0.7	4.7	4.6	4.6	4.6	4.6	4.4
		3.0	2.2	4.9	4.9	4.9	4.8	4.7	4.4
		5.0	4.1	5.1	5.1	5.0	4.8	4.7	4.4
		7.0	6.0	5.2	5.2	5.0	4.8	4.7	4.4
		9.0	7.9	5.4	5.3	5.0	4.8	4.7	4.4
		11.0	9.8	5.6	5.3	5.0	4.8	4.7	4.4
		13.0	11.8	5.6	5.3	5.0	4.8	4.7	4.4
		15.0	13.7	5.6	5.3	5.0	4.8	4.7	4.4
50	6.3	-19.8	-20.0	3.7	3.7	3.7	3.7	3.7	3.7
		-18.8	-19.0	3.8	3.8	3.8	3.8	3.8	3.8
		-16.7	-17.0	4.1	4.0	4.0	4.0	4.0	4.0
		-14.7	-15.0	4.3	4.3	4.3	4.2	4.2	4.2
		-12.6	-13.0	4.5	4.5	4.5	4.5	4.5	4.5
		-10.5	-11.0	4.7	4.7	4.7	4.7	4.7	4.7
		-9.5	-10.0	4.8	4.8	4.8	4.8	4.8	4.8
		-8.5	-9.1	4.9	4.9	4.9	4.9	4.9	4.9
		-7.0	-7.6	5.1	5.1	5.1	5.1	5.1	5.1
		-5.0	-5.6	5.3	5.3	5.3	5.3	5.3	5.3
		-3.0	-3.7	5.5	5.5	5.5	5.5	5.5	5.5
		0.0	-0.7	5.9	5.9	5.8	5.8	5.8	5.5
		3.0	2.2	6.2	6.2	6.2	6.1	5.9	5.5
		5.0	4.1	6.4	6.4	6.3	6.1	5.9	5.5
		7.0	6.0	6.6	6.6	6.3	6.1	5.9	5.5
		9.0	7.9	6.8	6.7	6.3	6.1	5.9	5.5
		11.0	9.8	7.0	6.7	6.3	6.1	5.9	5.5
		13.0	11.8	7.1	6.7	6.3	6.1	5.9	5.5
		15.0	13.7	7.1	6.7	6.3	6.1	5.9	5.5

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5 Capacity tables

5 - 3 Capacity Correction Factor

FXZQ-M9

		Single module and 2 module systems (not applicable for 3 module systems)						
		20°CDB	23°CDB	26°CDB	27°CDB	28°CDB	30°CDB	32°CDB
		14°CWB	16°CWB	18°CWB	19°CWB	20°CWB	22°CWB	24°CWB
20	TC ratio	0,529	0,539	0,584	0,623	0,655	0,708	0,757
	SHF ratio	1,196	1,299	1,276	1,214	1,172	1,115	1,069
25	TC ratio	0,529	0,539	0,584	0,623	0,655	0,708	0,757
	SHF ratio	1,196	1,299	1,276	1,214	1,172	1,115	1,069
32	TC ratio	0,530	0,539	0,583	0,623	0,655	0,709	0,773
	SHF ratio	1,194	1,297	1,278	1,215	1,173	1,115	1,070
40	TC ratio	0,536	0,545	0,574	0,615	0,648	0,702	0,750
	SHF ratio	1,174	1,279	1,293	1,225	1,179	1,119	1,076
50	TC ratio	0,542	0,553	0,579	0,619	0,654	0,710	0,753
	SHF ratio	1,150	1,250	1,283	1,219	1,172	1,114	1,077

4TW27232-9

NOTES - ANMERKUNGEN - Σημειώσεις - NOTAS - REMARQUES - NOTE - OPMERKINGEN - Примечания - NOTLAR

How to use this table - *So verwenden Sie diese Tabelle* - Πώς θα χρησιμοποιήσετε αυτό τον πίνακα - *Cómo utilizar esta tabla* - Utilisation de ce tableau - *Come utilizzare questa tabella* - Gebruik van deze tabel - Как пользоваться этой таблицей - *Bu tablo nasıl kullanılmalı?:*

Capacity : Total capacity for High sensible mode = Total capacity for normal capacity table X TC ratio.
Leistung: Gesamtleistung für hochfühlbaren Leistungsmodus = Gesamtleistung für normale Leistungstabelle x GL-Verhältnis.
Απόδοση: Συνολική απόδοση για τη λειτουργία υψηλής ευαισθησίας = Συνολική απόδοση για τον πίνακα κανονικών αποδόσεων X αναλογία TC
Capacidad: Capacidad total para el modo de alta sensibilidad = Capacidad total para la tabla de capacidad normal X relación TC.
Capacité sensible (FCS (Facteur de chaleur sensible) – en anglais : SHF) : FCS pour le mode sensibilité élevée (« High ») = FCS du tableau des capacités normales x rapport FCS.
Capacità: Capacità totale per modalità ad alta capacità sensibile = Capacità totale per tabella capacità normali X rapporto TC.
Capaciteit: totale capaciteit in modus grote ("High") gevoeligheid = totale capaciteit uit de tabel met normale capaciteiten x TC-ratio.
Производительность: Общая производительность для режима с высоким коэфф. ощутимого охлаждения = Общая производительность для нормального режима, таблица X коэфф. TC.
Kapasite: Yüksek algı modu için toplam kapasite = Normal kapasite tablosundaki toplam kapasite değeri x TC oranı.

Sensible capacity (SHF): SHF for High sensible mode = SHF for normal capacity table X SHF ratio .
Fühlbare Leistung (SHF): SHF für hochfühlbaren Leistungsmodus = SHF für normale Leistungstabelle x SHF-Verhältnis.
Αισθητή απόδοση (SHF): SHF για λειτουργία υψηλής ευαισθησίας = SHF για πίνακα κανονικών αποδόσεων X αναλογία SHF .
Capacidad sensible (FCS): SHF para el modo de alta sensibilidad = SHF para la tabla de capacidad normal X relación SHF.
Capacité sensible (FCS (Facteur de chaleur sensible) – en anglais : SHF) : FCS pour le mode sensibilité élevée (« High ») = FCS du tableau des capacités normales x rapport FCS.
Capacità sensibile (SHF): SHF per modalità ad alta capacità sensibile = SHF per tabella capacità normali X rapporto SHF.
Gevoeligheidscapaciteit (WGF (warmtegevoelsfactor)– in het Engels "SHF"): WGF voor de modus grote ("High") gevoeligheid = WGF uit de tabel met normale capaciteiten x WGF-ratio.
Ощутимая производительность (SHF): SHF для режима с высоким коэфф. ощутимого охлаждения = SHF для нормального режима, таблица X коэфф. SHF.
Algılanabilir kapasite (SHF): Yüksek algı modu için SHF = Normal kapasite tablosundaki SHF değeri x SHF oranı.

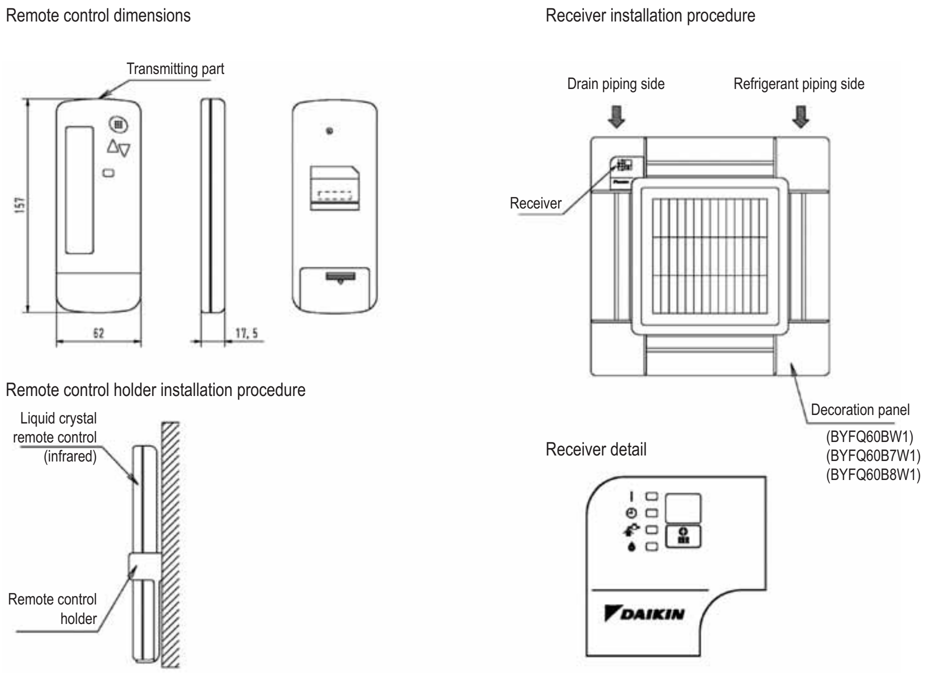
In case of SHF is bigger than 1 , SHF is "1"
Für den Fall, dass SHF größer als 1 ist, wird SHF als "1" angenommen.
Σε περίπτωση που το SHF είναι μεγαλύτερο από 1, το SHF είναι "1"
En caso de que SHF sea superior a 1 , SHF equivale a "1"
Si FCS est supérieur à 1, utilisez « 1 » pour FCS.
Qualora il valore SHF sia maggiore di 1 , SHF è "1"
Indien WGF groter is dan 1, neem dan "1" voor WGF.
Если SHF больше 1, то SHF равен "1"
SHF değeri 1'den büyükse, SHF değeri "1" kabul edilmelidir

6 Dimensional drawings

6 - 1 Dimensional Drawings

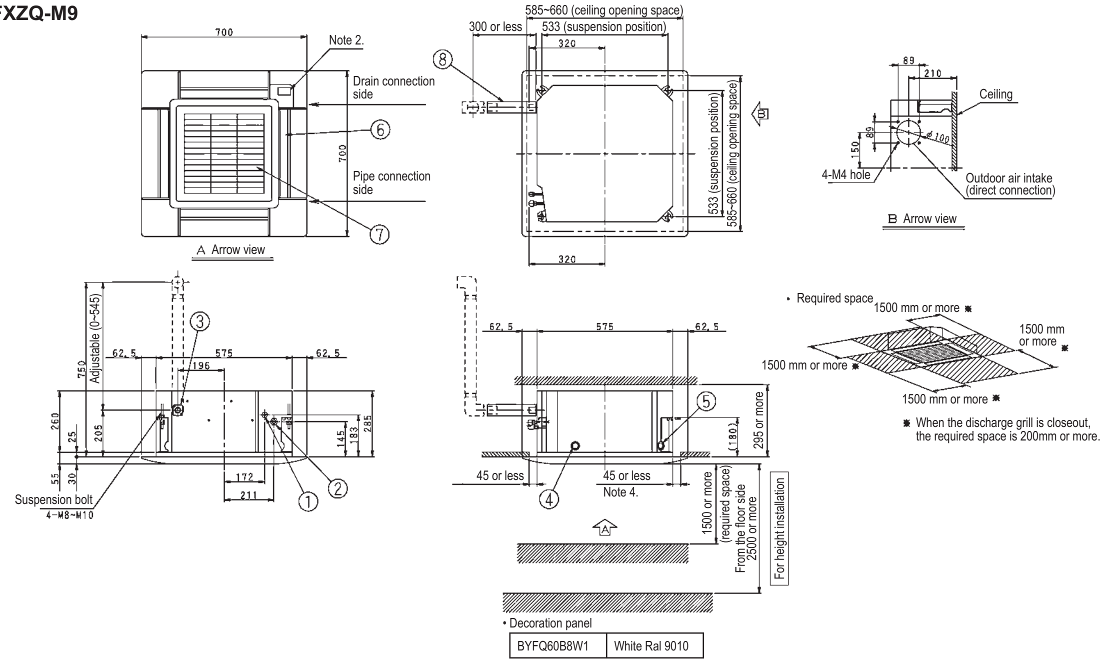
6

FXZQ-M9



3D038937A

FXZQ-M9



3D039005E

Item	Part name	Remark
1	Liquid pipe connection	ø 6.4 (flare connection)
2	Gas pipe connection	ø 12.7 (flare connection)
3	Drain pipe connection	VP20 (O.D. ø 26)
4	Power supply connection	
5	Remote control code and control wiring connection	
6	Air discharge grille	
7	Suction grille	
8	Drain hose (accessory)	I.D. ø 25 (outlet)

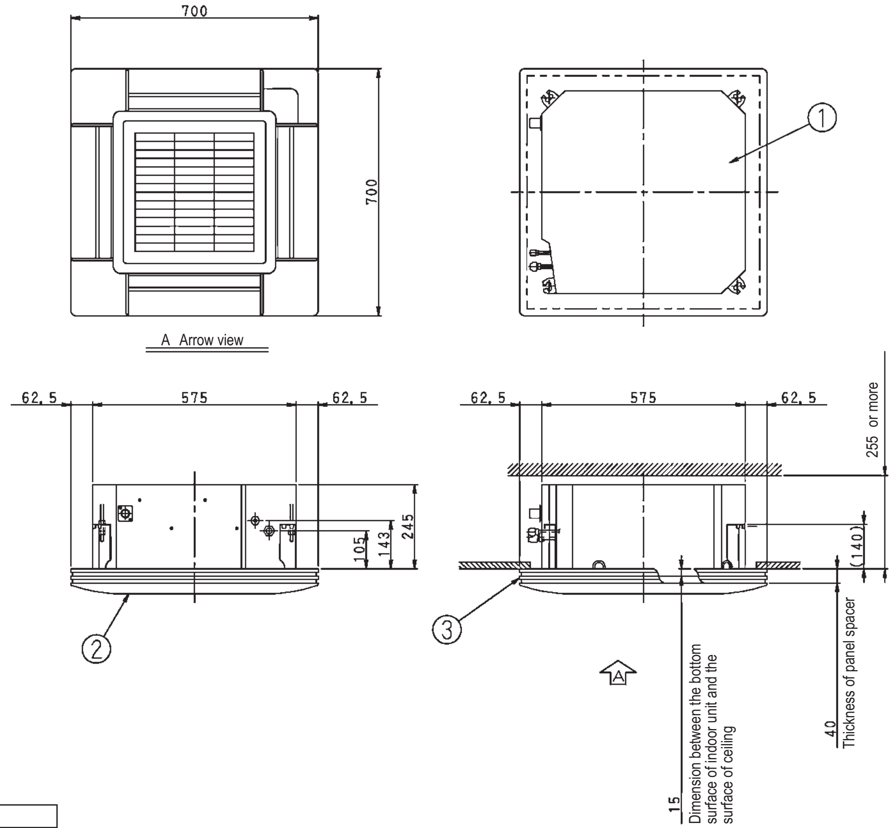
NOTES

1. Sticking location for manufacture's label.
   Manufacture's label for indoor unit: on the bell mouth inside suction grille.
   Manufacture's label for decoration panel: on the inner frame inside suction grille.
2. In case of using infrared remote control, this position will be a signal receiver, refer to the drawing of infrared remote control in detail.
3. When the temperature and humidity in the ceiling exceed 30 °C and RH 80% or the fresh air is inducted into the ceiling or the unit continues 24 hour operation, an additional insulation (thickness 10 mm or more of glasswool or polyethylene form) is required.
4. Though the installation is acceptable up to maximum of 660 mm square ceiling opening, keep the clearance of 45 mm or less between the main unit and the ceiling opening so that the panel overlap allowance can be ensured.

6 Dimensional drawings

6 - 1 Dimensional Drawings

FXZQ-M9



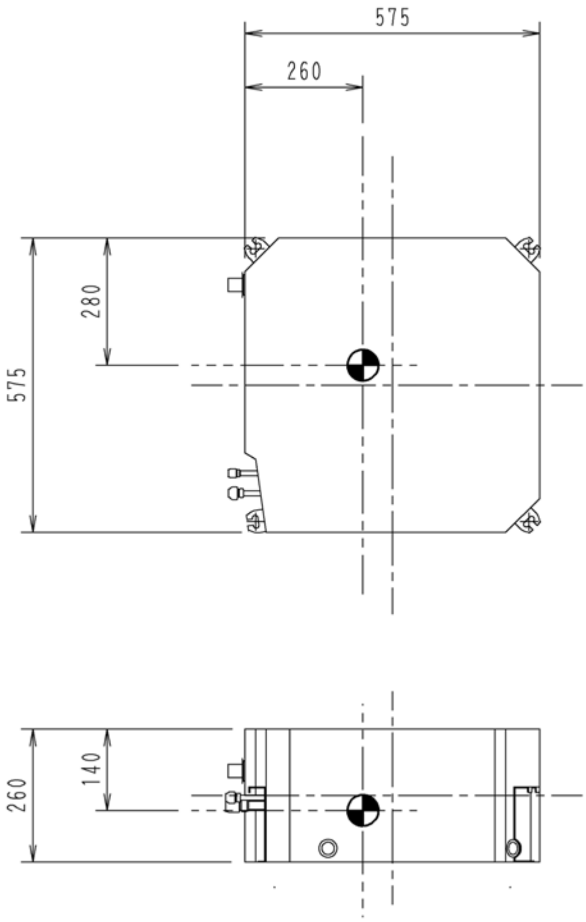
Item	Name
1	Indoor unit
2	Decoration panel
3	Panel spacer

3D041038A

7 Centre of gravity

7 - 1 Centre of Gravity

FXZQ-M9

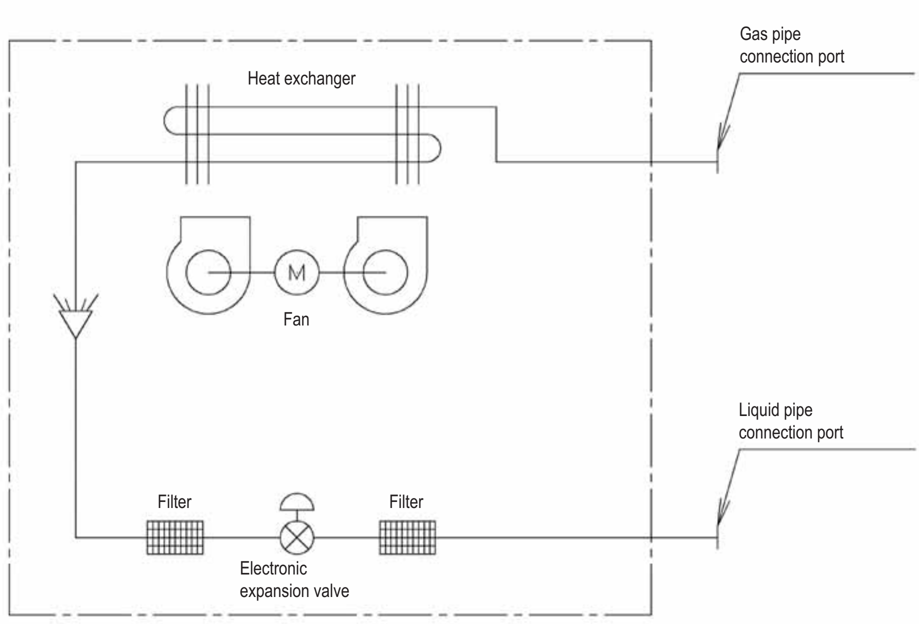


4D040158A

8 Piping diagrams

8 - 1 Piping Diagrams

FXZQ-M9



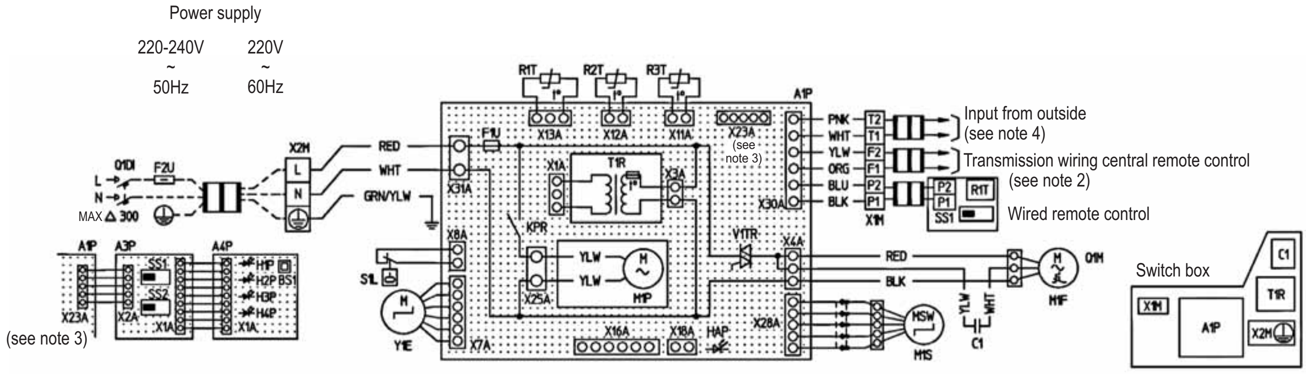
4D040157A

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

FXZQ-M9

9



A1P	Printed circuit board	V1TR	Triac	H4P	Light emitting diode (defrost-orange)
C1	Capacitor (M1F)	X1M	Terminal strip	SS1	Selector switch (main/sub)
F1U	Fuse (Ⓑ, 5A, 250V)	X2M	Terminal strip	SS2	Selector switch (wireless address set)
F2U	Field fuse	Y1E	Electronic expansion valve		
HAP	Light emitting diode (service monitor green)			Connector for optional parts	
KPR	Magnetic relay (M1P)	Wired remote control		X16A	Connector (adapter for wire)
M1F	Motor (indoor fan)	R1T	Thermistor (air)	X18A	Connector (on/off) (wiring adapter for electronical appendices)
M1P	Motor (drain pump)	SS1	Selector switch (main/sub)		
M1S	Motor (swing flap)				
Q1D1	Field earth leak detector (max. 300 mA)	Infrared remote control (receiver/display unit)			
Q1M	Thermal protector (M1F embedded)	A3P	Printed circuit board		
R1T	Thermistor (air)	A4P	Printed circuit board		
R2T	Thermistor (coil, liquid)	BS1	Push button (on/off)		
R3T	Thermistor (coil, gas)	H1P	Light emitting diode (on-red)		
S1L	Float switch	H2P	Light emitting diode (timer-green)		
T1R	Transformer (220-240V/22V)	H3P	Light emitting diode (filter sign-red)		

PNK: pink	WHT: white
YLW: yellow	ORG: orange
BLU: blue	BLK: black
RED: red	BRN: brown

3TW33686-1

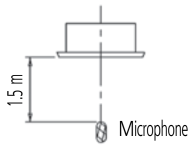
NOTES

1. ☐☐☐ : terminal, ⊙⊙ : connector, -○- : wire clamp, ≡▯▯≡ : field wiring
2. When using the central remote control see manual for connection to the unit.
3. X23A is connected when the infrared remote control kit is being used.
4. When connecting the input wires from outside, forced off or on/off control operation can be selected by remote control. In details, refer to the installation manual attached to the unit.
5. Remote control model varies according to the combination system. See technical data and catalogs, etc. before connecting.

10 Sound data

10 - 1 Sound Level Data

FXZQ-M9

Model	Sound pressure level			Sound power level
	H	L	Measuring location	
FXZQ20M9	30	25		47
FXZQ25M9	30	25		47
FXZQ32M9	32	26		49
FXZQ40M9	36	28		53
FXZQ50M9	41	33		58

NOTES

1 Measuring place: anechoic chamber

2 Operation noise differs with operation and ambient conditions

3 Operating conditions: Power source: 230V, 50 Hz

- Cooling: Indoor air temperature: 27°CDB, 19°CWB
  Outdoor air temperature: 35°CDB, 24°CWB
- Heating: Indoor air temperature: 20°CDB, 15°CWB
  Outdoor air temperature: 7°CDB, 6°CWB

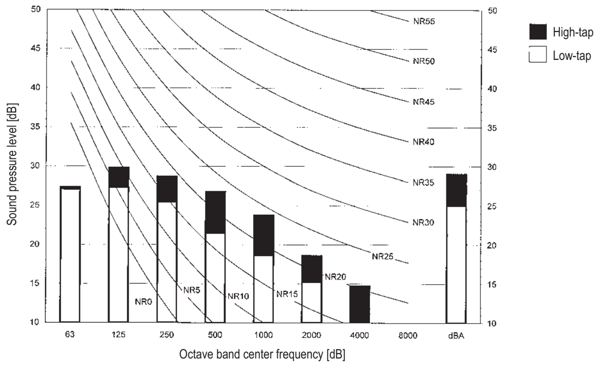
10

10 Sound data

10 - 2 Sound Pressure Spectrum

10

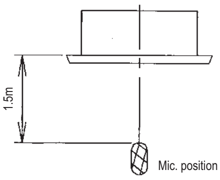
FXZQ15M9



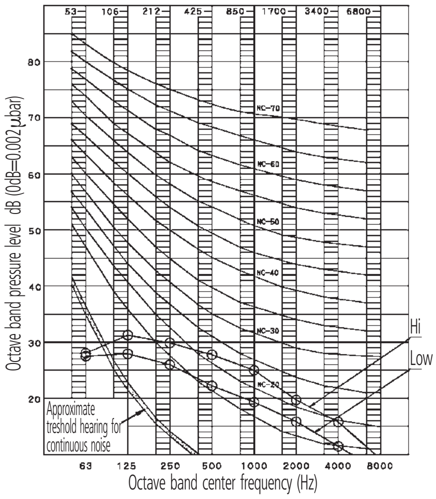
3TW31617-1

NOTES

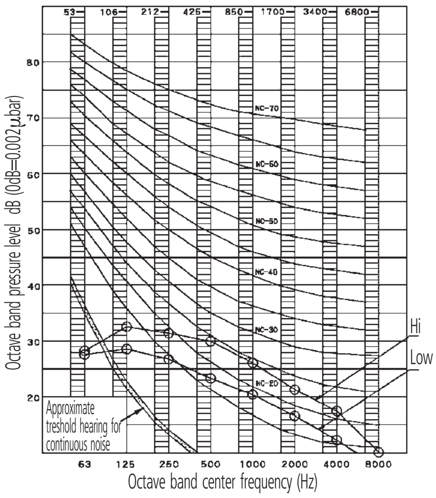
1. Data is valid at free field condition
2. Data is valid at nominal operation condition
3. dBA = A-weighted sound pressure level (A-scale according to IEC)
4. Reference acoustic pressures 0dB = 20μPa



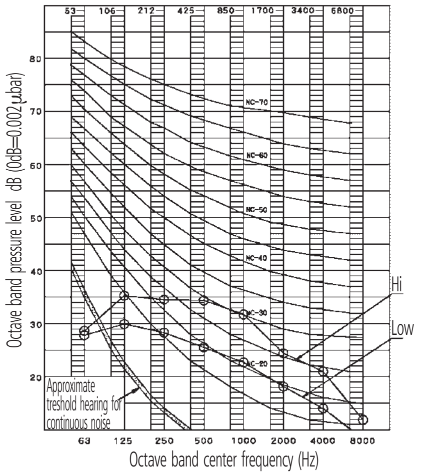
FXZQ20,25M9 4D040274A



FXZQ32M9 4D040285A



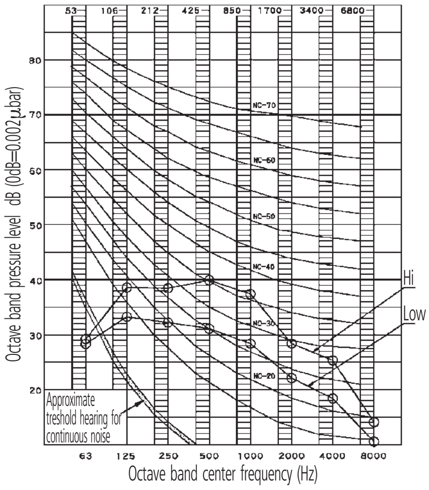
FXZQ40M9 4D040286A



10 Sound data

10 - 2 Sound Pressure Spectrum

FXZQ50M9 4D040287A



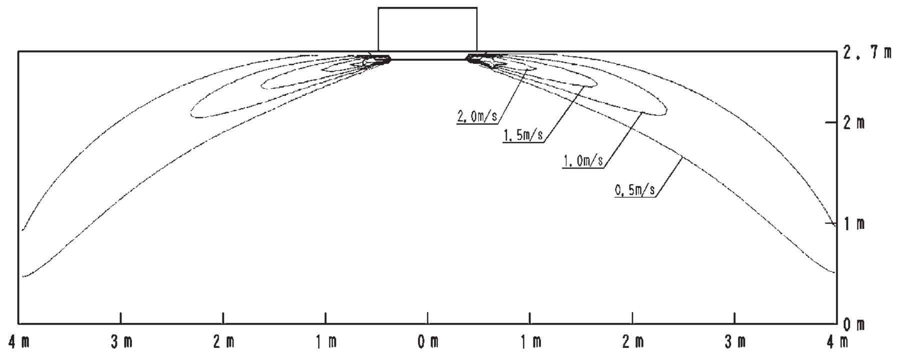
11 Air flow patterns

11 - 1 Air Flow Pattern - Cooling

FXZQ20,25M9

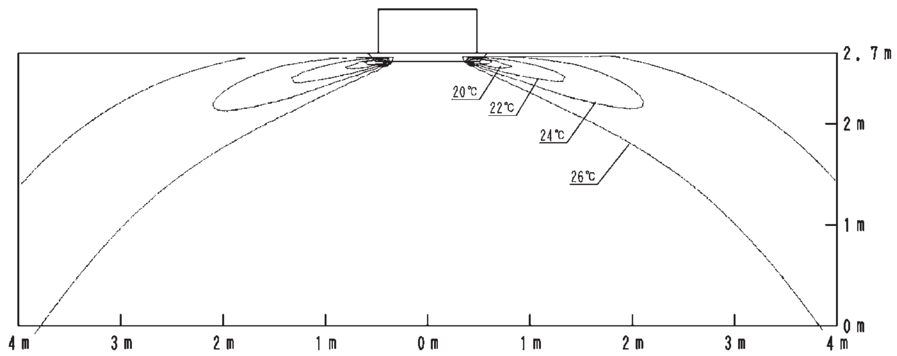
Cooling air velocity distribution

4-way discharge, air flow direction: horizontal



Cooling air temperature distribution

4-way discharge, air flow direction: horizontal

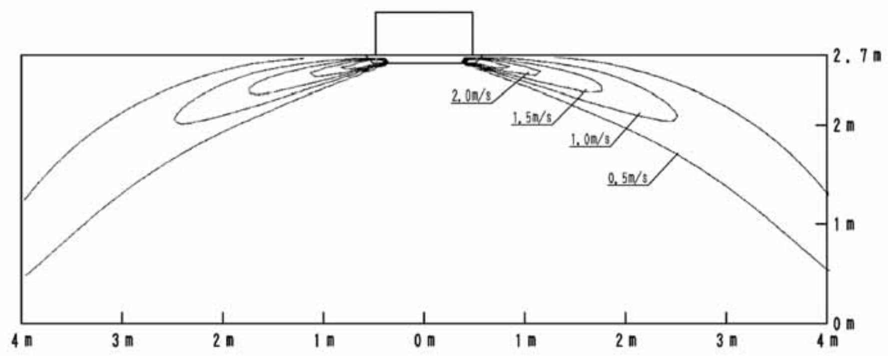


4D039738D

FXZQ32M9

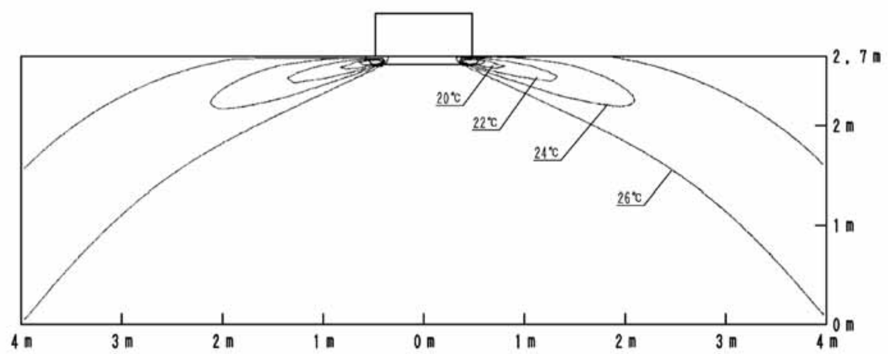
Cooling air velocity distribution

4-way discharge, air flow direction: horizontal



Cooling air temperature distribution

4-way discharge, air flow direction: horizontal



4D040188A

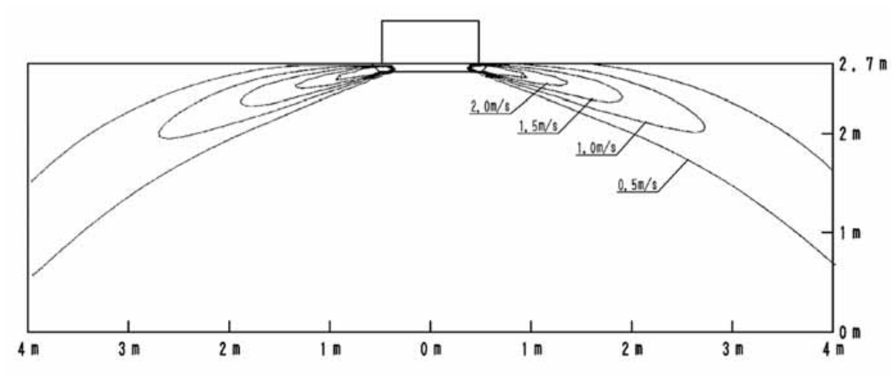
11 Air flow patterns

11 - 1 Air Flow Pattern - Cooling

FXZQ40M9

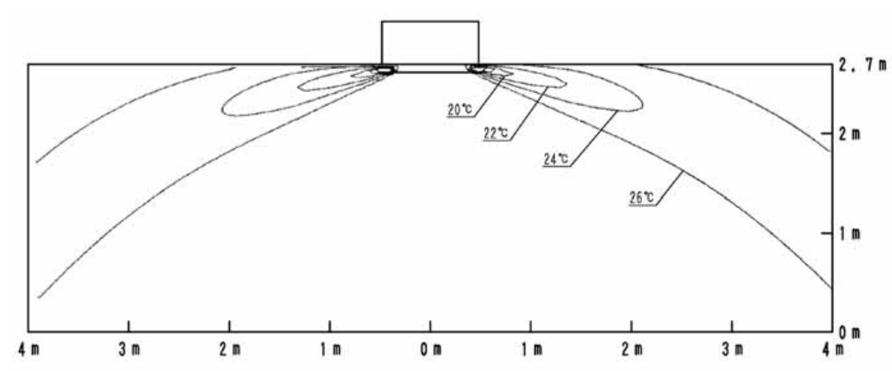
Cooling air velocity distribution

4-way discharge, air flow direction: horizontal



Cooling air temperature distribution

4-way discharge, air flow direction: horizontal

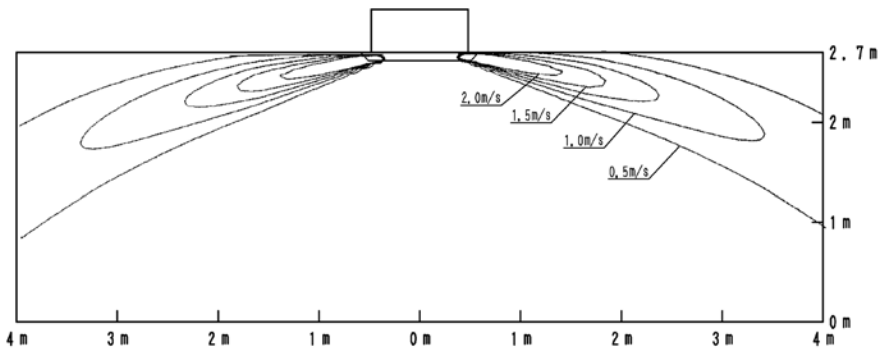


4D040189A

FXZQ50M9

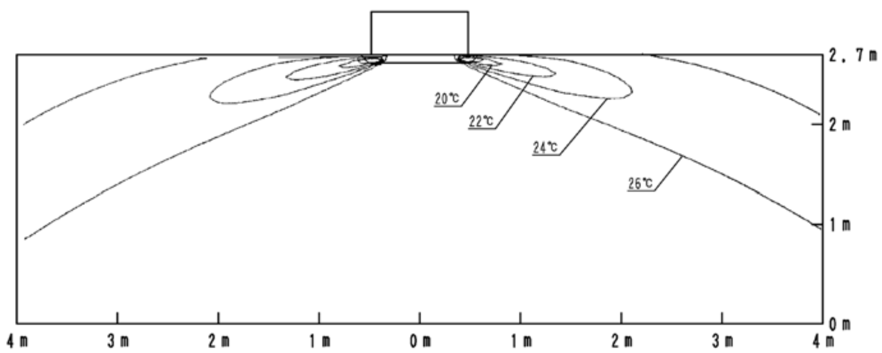
Cooling air velocity distribution

4-way discharge, air flow direction: horizontal



Cooling air temperature distribution

4-way discharge, air flow direction: horizontal



4D040190A

11 Air flow patterns

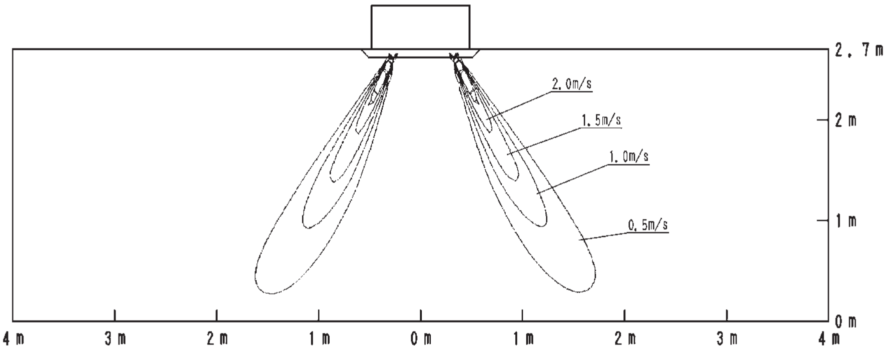
11 - 2 Air Flow Pattern - Heating

11

FXZQ20,25M9

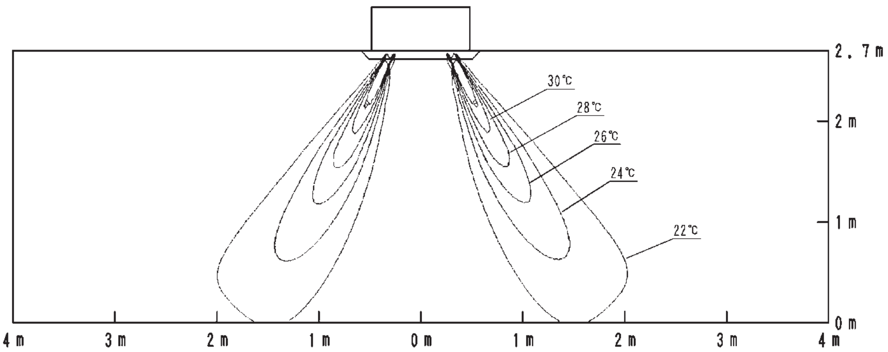
Heating air velocity distribution

4-way discharge, air flow direction: down



Heating air temperature distribution

4-way discharge, air flow direction: down

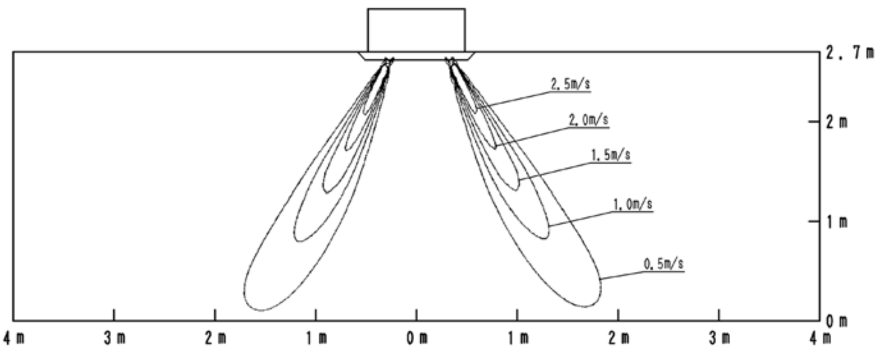


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FXZQ32M9

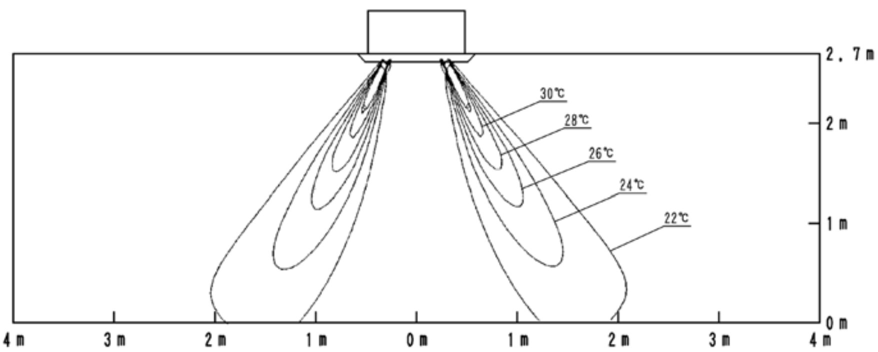
Heating air velocity distribution

4-way discharge, air flow direction: down



Heating air temperature distribution

4-way discharge, air flow direction: down



4D040191A

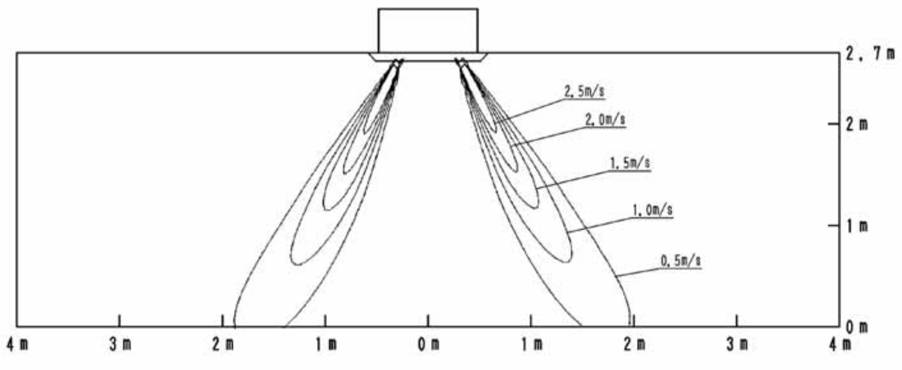
11 Air flow patterns

11 - 2 Air Flow Pattern - Heating

FXZQ40M9

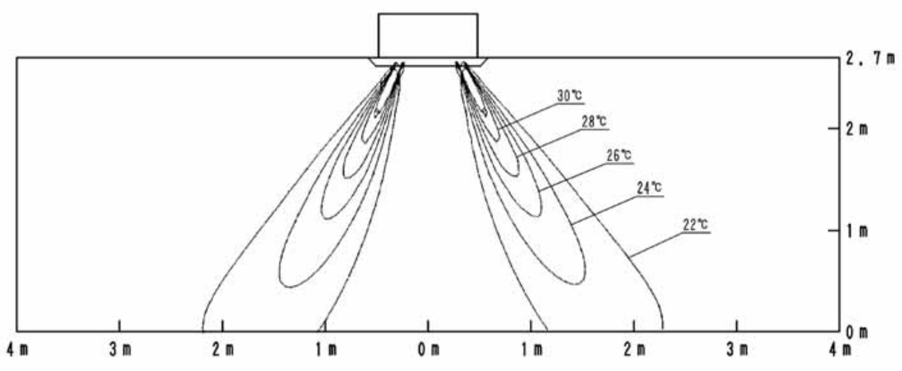
Heating air velocity distribution

4-way discharge, air flow direction: down



Heating air temperature distribution

4-way discharge, air flow direction: down

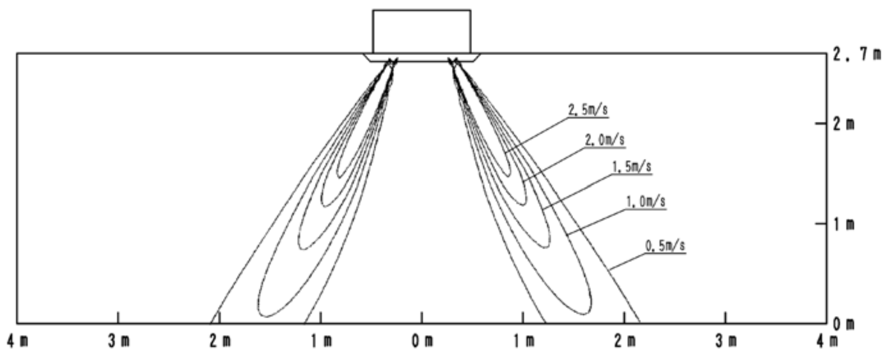


4D040192A

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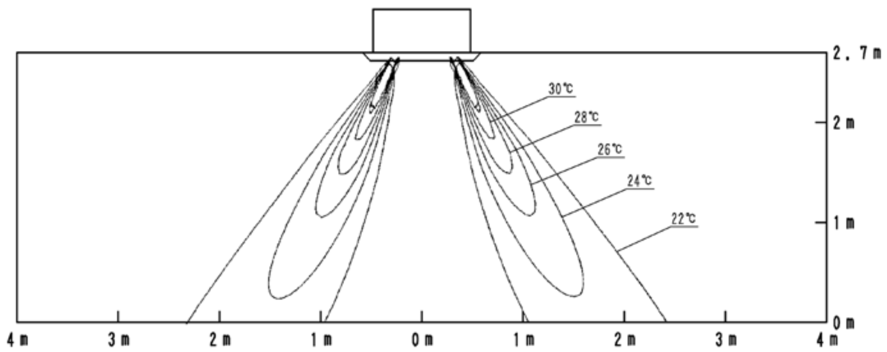
Heating air velocity distribution

4-way discharge, air flow direction: down



Heating air temperature distribution

4-way discharge, air flow direction: down



4D040193A

In all of us, a green heart

Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.

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